

# UNO-2272G

Intel® Atom™/Celeron® Palm-Size  
Automation Computer with 1 x GbE,  
2 x mPCIe, VGA/HDMI

NEW



## Introduction

Advantech's UNO-2000 series of Embedded Automation Computers are fanless, with a highly ruggedized embedded operating system (Linux-Embedded). The series also includes iDoor technology which supports automation feature extensions such as industry fieldbus communication, Wi-Fi/3G, Digital I/O, including palm, small, and regular-size form-factors with indicated market segments in terms of entry, value, and performance product positioning. Both entry and value Embedded Automation Computers feature specific functions and they are suitable for data gateway, concentrator and data server applications. The performance model can shorten your development time and offer multiple networking interfaces to fulfill a diverse range of requirements.

## Specifications

### General

- Certification** CE, FCC, UL, CCC, BSMI
- Dimensions (W x D x H)** 157 x 88 x 50 mm (6.2" x 3.5" x 2.0")
- Form Factor** Palm Size
- Enclosure** Aluminum Housing
- Mounting** Stand, Wall, VESA (Optional), DIN-rail (Optional)
- Weight (Net)** 0.8 kg (1.76 lbs)
- Power Requirement** 24V<sub>DC</sub> ± 20%
- Power Consumption** 14W (Typical), 45.3W (Max)
- OS Support** Microsoft® Windows 7, Windows 10, Advantech Linux

### System Hardware

- BIOS** AMI EFI64 Mbit
- Watchdog Timer** Programmable 256 levels timer interval, from 1 to 255 sec
- Processor** Intel Celeron Quad Core J1900 2.0 GHz
- System Chip** Intel Atom SoC integrated
- Memory** Built-in 2GB DDR3L 1333 MHz, up to 8GB
- Graphics Engine** Intel® HD Graphics
- Ethernet** Intel i210 GbE, 802.10av, IEEE1588/802.1AS, 803.3az
- LED Indicators** LEDs for Power, HDD, LAN ((Active, Status)
- Storage** 1 x half-size mSATA  
Supports HDD/SSD by project
- Expansion** 2 x Full-size mPCIe slot

### I/O Interfaces

- Serial Ports** 1 x RS-232 (RS-422/485 by BIOS option), DB9, 50 ~ 115.2kbps
- LAN Ports** 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u 1000BASE-T Fast Ethernet
- USB Ports** 2 x USB 2.0 and 1 x USB 3.0
- Displays** 1 x HDMI, supports 1920 x 1080 @ 60Hz
- Audio** Line-Out
- Power Connector** 1 x 2 Pins, Terminal Block

## Features

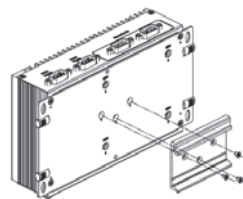
- Intel® Atom™ N2800/J1900 processors with 2GB DDR3/DDR3L memory
- 1 x GbE, 3 x USB 2.0/3.0, 1 x COM, 1 x VGA or HDMI, audio
- Compact with fanless design
- Rubber stopper design with captive screws
- Diverse system I/O and isolated digital I/O by iDoor technology
- Supports Fieldbus protocol by iDoor technology
- 3G/GPS/GPRS/Wi-Fi communication by iDoor technology
- Supports MRAM by iDoor technology

### Environment

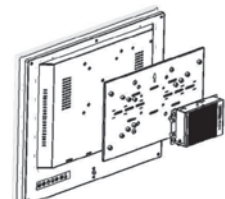
- Operating Temperature** -10 ~ 55°C (14 ~ 131) @ 5 ~ 85% RH with 0.7 m/s airflow  
~ 40 ~ 85°C ( -40 ~ 185°F)
- Storage Temperature** ~ 40 ~ 85°C ( -40 ~ 185°F)
- Relative Humidity** 10 ~ 95% RH @ 40°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- Ingress Protection** IP40

## Installation Scenario

### DIN-rail Mount Illustration

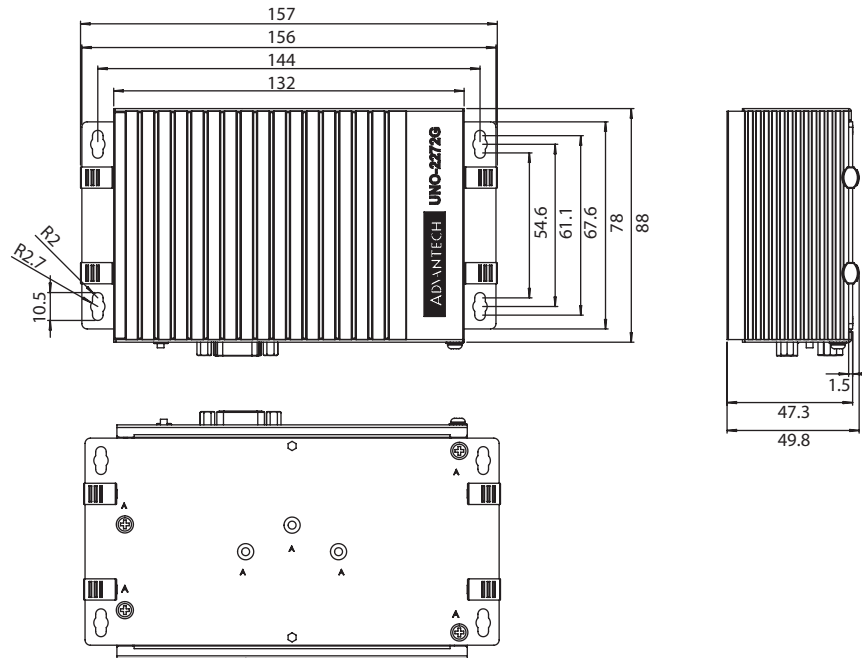


### VESA Mount Illustration

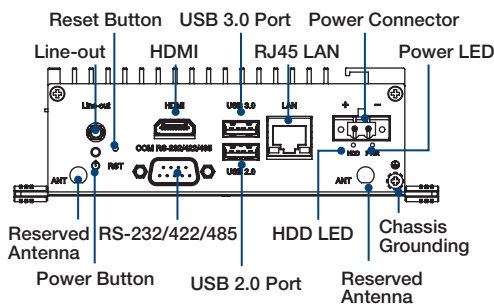


## Dimensions

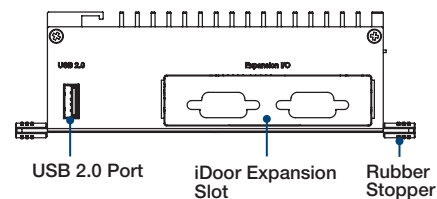
Unit: mm



## Front I/O View



## Rear I/O View



## Ordering Information

- UNO-2272G-J2AE** Intel Celeron J1900 2.0GHz, 2GB, 1xLANs, 2xmPCIe

## iDoor Modules

- PCM-2300MR-BE** MR4A16B, MRAM, 2 MByte, mPCIe
- PCM-23U1DG-BE** Internal locked USB Slot for USB Dongle
- PCM-24D2R2-BE** 2-Port Isolated RS-232 mPCIe, DB9
- PCM-24D2R4-BE** Isolated RS-422/485, DB9 x 2, (USB type)
- PCM-24D4R2-BE** 4-Port Non-Isolated RS-232 mPCIe, DB37
- PCM-24D4R4-BE** Non-Isolated RS-422/485, DB37 x 1 (USB Type)
- PCM-24R1TP-BE** Intel I225, 2.5Gb/s, IEEE 1588, TSN, RJ45\*1
- PCM-24R2GL-AE** 2-Port Gigabit Ethernet, mPCIe, RJ45
- PCM-24S2WF-BE** WiFi 802.11 ac/a/b/g/n 2T2R w/Bluetooth 4.1
- PCM-24S34G-CE** EG-25G LTE/HSPA+/GPRS, mPCIe, Ant
- PCM-27D24DI-AE** 24-Channel Isolated Digital I/O w/ counter mPCIe, DB37

## Optional Accessories

- 96PSA-A60W24T2-3** 60WC to DC UNO series power adapter (Industrial Grade)
- 1702002600** Power Cable US Plug 1.8 M (Industrial Grade)
- 1702002605** Power Cable EU Plug 1.8 M (Industrial Grade)
- 1702031801** Power Cable UK Plug 1.8 M (Industrial Grade)
- 1700000596** Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- UNO-2000G-DMKAE** UNO-2000 DIN Rail Kit
- UNO-2000G-VMKAE** UNO-2000 VESA Mount Kit

## Embedded O/S

- 20703WE7PS0000** WES7P x64MUI v4.18 B008 image
- 2070014984** WES7P X86 MUI V4.16 B004 image
- 2070014957** WIN10ENT 2016LTSP v6.01 B023 image
- 2070014939** WEC7 MUI V4.02 B088 image

Please note: If some optional modules are offered with the system, additional system certificates may be required in certain regions/countries.  
Please contact Advantech for certificate compliance.